# QuickSpecs

Overview

The HP Intelligent Infrastructure Analyzer Software (IIAS) v2 is an online monitoring and diagnostic solution intended to manage the physical layer of a Storage Area Network (SAN) consisting of HP StoreFabric B-series and/or H-series Fibre Channel switches and directors, HP 3PAR StoreServ Storage and HP StoreFabric Fibre Channel HBAs. It is also supported on select HP Networking (HPN) Switches. It uses industry-standard protocols (such as SNMP, SMI-S, Telnet) to monitor the physical layer across the SAN and to diagnose changes/events in Small Form-factor Pluggable (SFP) transceiver states/characteristics. It also presents the SAN topology, inventory and diagnostic information to the user in real-time. It is targeted at customers who have HP 3PAR StoreServ Storage, HP StoreFabric Fibre Channel HBAs and/or HP storage networking hardware in their SAN. In addition, customers with select HP Networking switches can also make use of the monitoring and diagnostic capability of HP IIAS. The HP Intelligent Infrastructure Analyzer software can be used to monitor and diagnose the physical layer of the Storage Area Network (SAN) in real-time, with an emphasis on the Small Form-factor Pluggable (SFP) transceivers on FC Switches and 8 and 16 Gb FC HBAs in servers or Storage arrays. The product can be used to detect potential failures in the SAN for root cause analysis and failure impact assessment and is therefore highly beneficial for enterprise SANs, where SAN management becomes cumbersome and tedious. HP Intelligent Infrastructure Analyzer Software improves the total data center quality experience by predicting switch optical link failures before they are reported and aims to reduce the cost incurred due to application downtime.
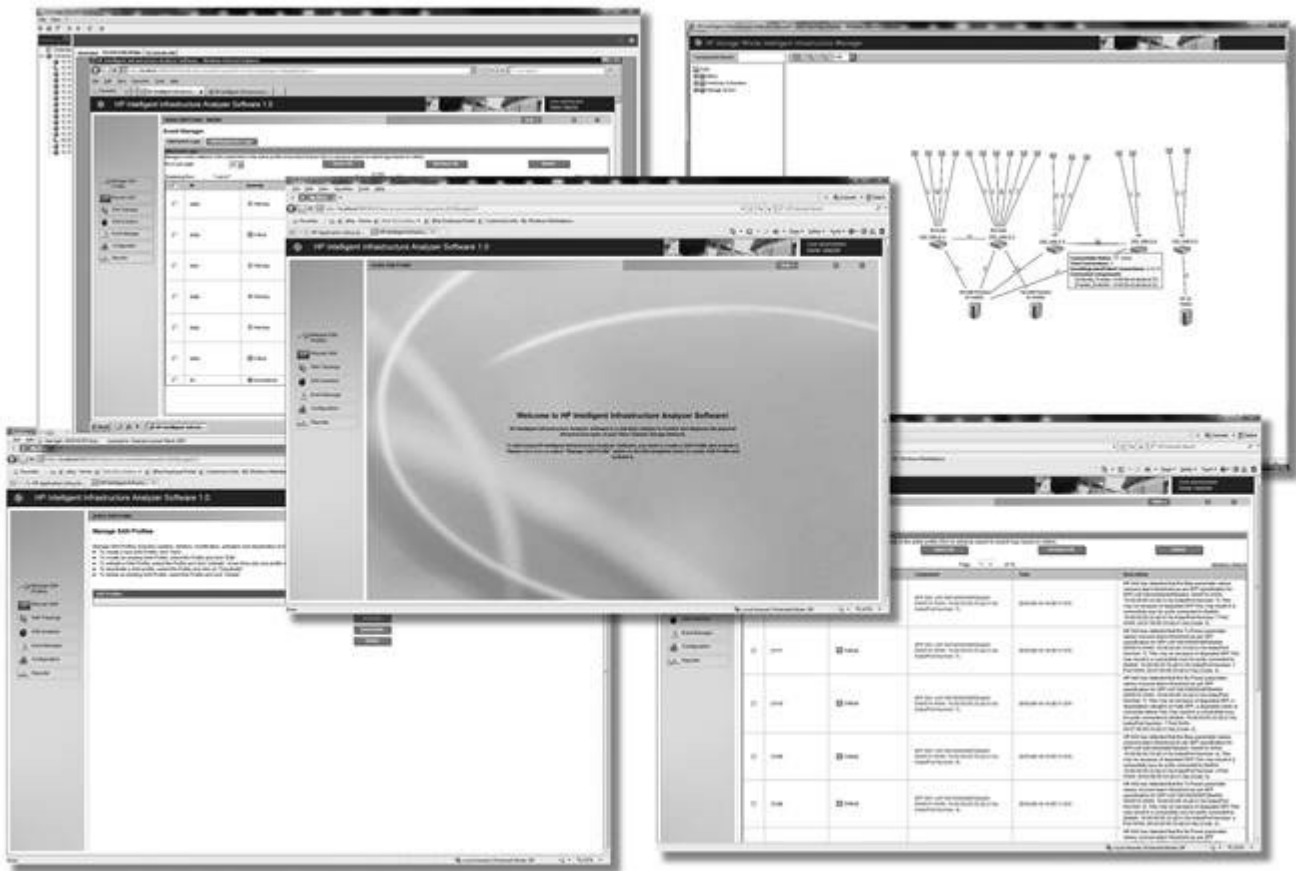
Overview

HP Intelligent Infrastructure Analyzer Software

HP Intelligent Infrastructure Analyzer Software v2 LTU   TC472A

HP Intelligent Infrastructure Analyzer Software v2 E-LTU   TC472AAE

Product Features

Feature List

The new features in the latest release of HP Intelligent Infrastructure Analyzer Software are:

- New Hardware Support: Support for transceiver related monitoring and diagnostics on the HP FlexFabric 5900CP-48XG-4QSFP+ Switch (FCoE ports only)
- Transceiver monitoring and diagnostics for up to 1024 ports in a SAN across HP Fibre Channel Adapters, 3PAR StoreServ Storage, B-series and H-series SAN Switches and select HP Networking switches

The complete HP Intelligent Infrastructure Analyzer Software feature set is as under:

- **Discovery & Data Collection:** Enables the discovery of HP StoreFabric 8 Gb and 16 Gb Fibre Channel HBAs (Qlogic based), HP StoreFabric B-series and H-series switches and HP 3PAR StoreServ Storage in a SAN and also enables the collection of important device data from these devices. Support for select HPN switches has also been added in the latest release.
- **Monitoring:** Provides the ability to monitor the optical parameters of SFPs and states of ports and SFPs in HP StoreFabric 8 Gb and 16 Gb Fibre Channel HBAs (QLogic based), HP StoreFabric B-series and H-series switches, select HP Networking switches and HP 3PAR StoreServ Storage and to report likely failure events. Support for select HPN switches has also been added in the latest release.
- **Diagnostics:** Examines the failure events for SFPs identified in the monitoring phase for root cause analysis and failure impact assessment, records status and provides recommendations
- **Topology & Inventory management:** Presents the SAN topology and inventory information to the user in real-time. Provides the ability to generate the latest SAN component and connectivity information periodically. Helps keep track of the inventory of physical components in the SAN and connectivity among these components
- **Reporting:** Generates reports with SAN topology, SAN inventory and SAN diagnostics information
- **Profile Management:** Provides the ability to create/delete SAN profiles, modify/update discovery information present in SAN profiles and also allows the user to configure the general product configuration options
- **Authentication & Licensing:** Provides user authentication and license mechanism using AutoPass licensing
- **Graphical User Interface:** Features a GUI through which customers can perform Profile Management, Discovery and Fabric Data Collection, Authentication, Inventory and Topology views, Diagnostic information views and Verification of Licensing
- **Database:** Provides a SAN Inventory Database, SAN Connectivity Database, Analysis Results Database, Reports Database and Events Database
- **Event Log and Notification management:** Provides the ability to manage event logs and to send notifications upon detecting events/failures
- **Logging:** Provides logging capabilities for the customer to debug/troubleshoot reported issues
- **Selective Monitoring:** Provides the ability to monitor the entire datacenter or only part of it. Customers can monitor every port attached to the datacenter, or they can select to monitor links that are high value
- **Hardware and Protocol Support:** Provides the ability to monitor the optical parameters of SFPs and states of ports and SFPs in HP StoreFabric 8 Gb and 16 Gb Fibre Channel HBAs (QLogic based), HP StoreFabric B-series and H-series switches and HP 3PAR StoreServ Storage and to report likely failure events. Support for select HPN switches has also been added in the latest release.

Pre-Requisite Information and Support Matrix

System Pre-Requisites HP Intelligent Infrastructure Analyzer Management Server is supported on the following operating systems:

- Windows Server 2003/2008/2012 (x86, x64)
- Windows XP
- Windows Vista
- Windows 7

NOTE: Latest service pack required for the above mentioned Operating Systems.

CPU Requirements	Dual-core 2.0 GHz CPU or better
RAM	2GB or higher RAM
Product installation disk space requirements	250 MB
Minimum disk space requirement	300 - 350 MB
Internet Explorer	8.0 or higher

Reference URL: for additional information and supporting documentation

Software Licensing The HP Intelligent Infrastructure Analyzer Software license enables users to run a monitoring and diagnostic solution on multiple HP StoreFabric FC HBAs, HP StoreFabric B-series and H-series switches, select HP Networking switches and 3PAR StoreServ storage arrays (up to 1024 ports in total)

Support Matrix **HP StoreFabric Fibre Channel switches**

B series	Firmware 7.x
H series	Firmware 8.0.14.03.00 or 8.0.4.04.00 or higher

HP Networking Switches

HP FlexFabric 5900CP-48XG-4QSFP+ Switch	(Only FCoE ports supported)

HP StoreFabric Host Bus Adapters

HP branded Qlogic HBA 8Gb/16Gb	Windows Server 2003 Windows Server 2003 R2 Windows Server 2008 Windows Server 2008 R2 Windows 2012 RHEL (RedHat Enterprise Linux) 5.8,5.9,6.3,6.4 SLES (SUSE Linux Enterprise) 11 SP2, SP3 VMware ESXi 5.0,5.1,5.5

Storage Device

3PAR Inserv Firmware Version	3.1.2 or higher

Service and Support

Service and Support	**Technology Services for increased uptime, productivity and ROI** TRUST HP storage technology experts for every level of service and support. Our integrated portfolio of Services for storage help customers reduce costs, optimize data, streamline storage management, and improve backup and recovery. Capitalizing on HP Storage Systems' capabilities requires a service partner who understands your increasingly complex environment. Team with the people who know HP infrastructure hardware and software best-the experienced professionals at HP Services. **Protect your business beyond warranty** Warranty protects against manufacturer defects, however warranty uplifts, such as HP Care Pack Services protect the business-by reducing downtime risks and providing operational consistency for mission-critical and standard business computing. **What HP Storage Technology Services can do for you** HP Storage Technology Services can help you design, deploy, test, integrate, support, and manage IT and infrastructure solutions. HP storage lifecycle support services offers a full spectrum of customer care-from technology support to complex migrations to complete managed services. **Choose the right level of support, deployment and integration services** HP support recommendations are designed to help you enhance technology operations and lower risk-and make it easier for you to seek the right balance between affordability and service-level commitments. Depending on your individual support needs, choose from three levels of care that cover the entire lifecycle to better address your needs-Optimized Care, Standard Care, and Basic Care. If none of our support recommendations meet your needs, we can tailor a service solution for your unique support requirements. Only HP brings together deep expertise, proactive and business critical support and a strong partner network-plus, a full set of infrastructure services designed to power a Converged Infrastructure.
Optimized Care- delivers best performance and stability through deployment and proactive management practices	**HP Proactive Care 24x7 -** Specifically designed for complex environments, this provides an end-to-end environment support solution that covers servers, operating systems, hypervisors, storage and SANs, and networks. Your incidents will be addressed 24x7, 365 days a year, through our advanced solution center support. **Plus, 40 credits per year,** select from an extensive menu of consultancy and technical services, such as onsite firmware upgrades, health checks, assessments, and education.
Standard Care-maintains high level of uptime, along with expert help to cut the cost and complexity of implementation and support	**HP Proactive Care 24x7-** for a higher return on your storage investment, Proactive Care delivers hardware and software support services designed specifically for your technology; rapid access to Advanced Solution Center Specialists plus, Firmware/Software management and best practice advice. Customers can optimize the return on their IT investment and realize the advantage of running their business critical applications on virtualized/x86 infrastructure **Plus,30 credits per year,** select from an extensive menu of consultancy and technical services, such as onsite firmware upgrades, health checks, assessments, and education
Basic Care-Minimum recommended support	**HP Foundation Care 24x7 Service** -HP Foundation Care 24x7 connects you to HP 24 hours a day, seven days a week for assistance on resolving issues - hardware onsite response within four hours and software call back within two hours after opening your case. Three years' coverage recommended with HP Care Pack Service. **Plus, 10 credits per year,** select from an extensive menu of consultancy and technical services, such as

Service and Support

onsite firmware upgrades, health checks, assessments, and education
http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-6638EN.pdf

For more information   www.hp.com/services/storage
To learn more on HP Storage Services, please contact your HP sales representative or HP Authorized Channel Partner

HP Care Pack Services are sold by HP and HP Authorized Service Partners:
Services for customers purchasing from HP or an enterprise reseller are quoted using HP order configuration tools.
Customers purchasing from a commercial reseller can find HP Care Pack Services at
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